#### M12S D00/00/00 F130

# Pandora NX 16GB Super

## **Compact Edge Al**

#### Features

- Powered by NVIDIA<sup>™</sup> Jetson Orin<sup>™</sup> NX 16GB Super up to 157 TOPS
- · Compact Size: 145mm×123mm×66mm
- $\cdot$  4×M.2, 8 Lanes MIPI CSI-2, and I2C / UART / GPIO / CAN Bus
- · 2×USB3.2 Gen2, 2×USB2.0, 1×Nano SIM Card Slot
- · 1×HDMI2.0





#### Specifications

System	
SOM Module	NVIDIA Jetson Orin™ NX 16GB Super
CPU	8-Core Arm® Cortex®-A78AE v8.2 64-Bit CPU 2MB L2 + 4MB L3
GPU	1024-Core NVIDIA Ampere Architecture GPU with 32 Tensor Cores
AI Performance	157 TOPS
System Memory	16GB 128-bit LPDDR5 102.4GB/s
Interface	
Storage	Supports External NVMe
Display Interface	1×HDMI2.0
Ethernet	2×RJ45 for 10/100/1000Mbps Ethernet DHCP Client
Expansion Slot	1×M.2 2280 M Key PCIe Gen4×2 Slot ( with Pre-Installed 128GB SSD ) 1×M.2 2280/3080 M Key PCIe Gen4×4 Slot, Support SSD or Video Capture Cards 1×M.2 2230 E Key PCIe Gen4×1+USB2.0 Slot, Support WiFi Module. 1×M.2 3042/3052 B Key USB3.2 Gen1 Slot, Support 5G/4G Wireless Module
USB	2×USB3.2 Gen2 ( Type-A ) 1×USB3.2 Gen2 ( Type-C ) (OTG) 2×USB2.0 ( Type-A )
MIPI	8-Lane MIPI CSI-2 ( D-PHY 2.1, Support MIPI Camera, Capture Card )
Audio	1×Line In ( 3.5mm Phone Jack ) 1×Line Out ( 3.5mm Phone Jack )
Peripheral Communication	40 Pin Header 1×125 2×12C 2×SPI 1×UART 3×GPIO 14 Pin Header 1×CAN Bus 1×UART with CTS/RTS 1×UART for Debug 1×Nano SIM Card Slot
Misc. Features	Firmware Upgradable TPM Module ( Optional )

### Video Encode / Decode

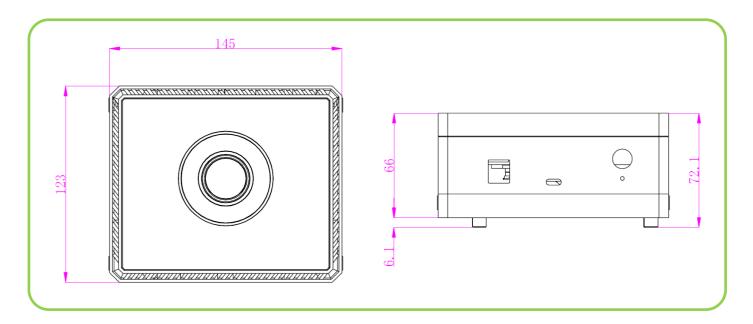
Video Feature		
	NVIDIA Jetson Orin <sup>™</sup> NX Super: AV1 ( UHP ) 1×4K60   3×4K30   6×1080p60   12×1080p30	
Video Encode	H.265 ( UHP ) 1×4K60   3×4K30   6×1080p60   12×1080p30 H.264 ( UHP ) 1×4K60   2×4K30   5×1080p60   11×1080p30	
Video Decode	NVIDIA Jetson Orin <sup>™</sup> NX Super:   AV1 ( Main Profile )   1×8K30   2×4K60   4×4K30   10×1080p60   20×1080p30   H.265 ( Main, Main10 )   1×8K30   2×4K60   4×4K30   9×1080p60   18×1080p30   H.264 ( Baseline, Main, High )   1×4K60   2×4K30   5×1080p60   11×1080p30   VP9 ( Profile 0, Profile 2 )   1×4K60   3×4K30   7×1080p60   15×1080p30	

#### **Environment**

Development Environment		
JetPack	6.2 or Higher	
Environment		
Power Supply	DC input : 12~36V	
Power Consumption	Max: 52.2W	
Operating Temperature	Standard Version: 0~60 C with Airflow	
Storage Temperature	-20~80°C	

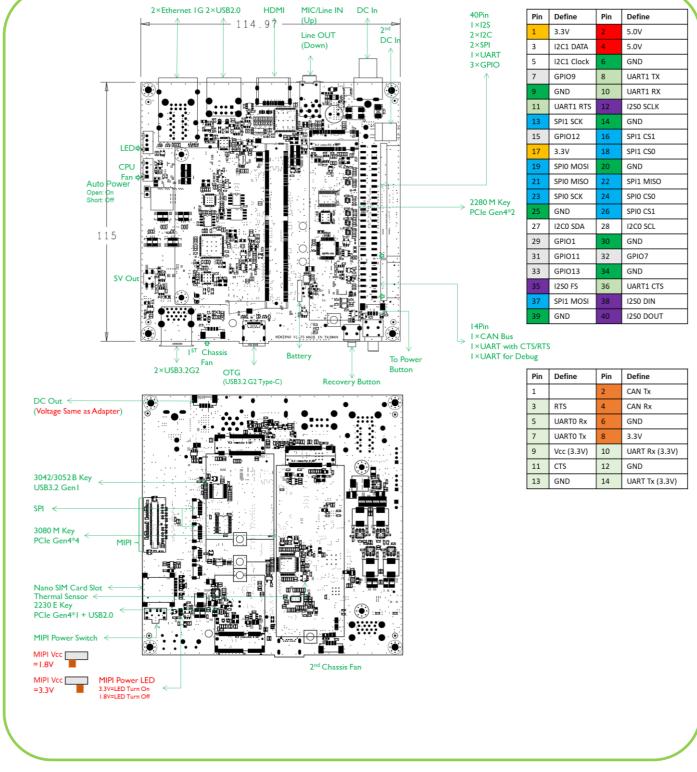
#### Mechanical

- · Dimension of case: 145mm×123mm×66mm
- · Dimension of main Board: 115mm×115mm
- Weight: 470g





#### Carrier Board



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